



The City of Raleigh

Stormwater Management Advisory Commission

August 3, 2017
3:00 pm

Conference Room 305
Raleigh Municipal Building

Commission Members Present: Matthew Starr, David Webb, Vanessa Fleischmann, Ken Carper, Mark Senior, Chris Bostic, and Evan Kane

Commission Members Absent: Kevin Yates and Francine Durso

Staff Members Present: Blair Hinkle, Kelly Daniel, Scott Smith, Allison McGarity, Lory Willard, Amy Farinelli, Kristin Freeman, Scott Bryant, Kevin Boyer, Ben Brown, Dale Hyatt, and Lauren Witherspoon

Guests: Raymond Holz, Everett Gupton, Dean Goodison, Tony Grubbs, John Anagnost, and John Solie

Meeting called to order: at 3:03 pm by Matthew Starr (*chair*)

1. **Welcome, Introductions, Excused Absences**

- **Mr. Starr** announced **Marion Deerhake** has resigned from the Commission due to her recent appointment to the Environmental Management Commission.
- **Mr. Senior** made a motion to excuse **Kevin Yates** and **Francine Durso** from today's meeting and **Mr. Bostic** seconded. The motion passed unanimously.

2. **Approval of the Minutes – June 1, 2017 Meeting**

- **Mr. Webb** made a motion to approve and **Mr. Senior** seconded. The motion was passed unanimously.

3. **Stormwater Staff Report** (Blair Hinkle)

- *Green Infrastructure and Low Impact Development (GI/LID)* – The text changes were presented and approved by the Planning Commission and Raleigh City Council will choose a date for a public hearing on August 15.
- *Employee Introductions*
 - Senior Staff Support Specialist – Allison McGarity (*new*)
 - Drainage Assistance Manager – Dale Hyatt (*promotion*)

4. **Comprehensive Plan Update**

John Anagnost (*Planning Department*) provided an update on the City's Comprehensive Plan. He stated the plan would go before the Planning Commission and Raleigh City Council in the next few months. He wants the Commission to provide comments on the plan since it's in the final stages. He mentioned the changes to the plan that relate to Stormwater are "resiliency" and "water supply". There are two levels of environmental protection changes that deal with stormwater, which include framework (*how we think of stormwater*) and changes specific to policies. Updates to the plan also concentrate more on natural sources of water. This means

looking at stormwater management not only as a flood control issue, but a more comprehensively ecological benefit as well. The update is on the city website and you can email comments to the Planning Department.

5. **Stormwater Quality Cost Share Project – 621 Kirby Street**

Lory Willard informed the Commission of the cost share project being presented for review. The project includes a 150-square-foot rain garden to collect rooftop runoff from 300 square feet of impervious surface and 2,000 square feet of pervious surface located within the Rocky Branch watershed. The petitioner is eligible for a 75 percent City/25 percent petitioner cost share and has agreed to annual reporting and a 10-year maintenance term.

621 Kirby Street	
Stormwater/City Contribution (75%)	\$1,180
Petitioner Contribution (25%)	\$393
Total	\$1,573

A **guest** asked if the chicken house is active and did it go in the nitrogen reduction. **Lory Willard** said it is active and no it didn't go in the reduction.

Motion:

Mr. Senior made a motion to approve and **Mr. Carper** seconded. The motion was passed unanimously.

6. **Updates to the Stormwater Quality Cost Share Program**

Lory Willard informed the Commission that this presentation would focus on approved projects that have been implemented in the past 17 months, and staff recommendations on updating and enhancing the program. We are focusing on supporting smaller scale projects and streamlining the process. Staff is proposing a three-tiered system based on the amount the City will reimburse the property owner. It will simplify the process, expand program utilization, and make the program accessible to all Raleigh citizens.

Proposed Project Tiers

Aspect	Large Projects	Medium Projects	Small Projects
1. Max City cost contribution	No maximum	\$5,000	\$1,000
2. Example project types	bioretention permeable pavers green roofs	rain gardens cisterns permeable pavers depaving	rain barrels downspout planters rain gardens downspout disconnection
3. Agreement requirement	Yes	Yes	No
4. Maintenance term	10 years	5 years	Informal

Commission Feedback

- o Reimbursement Cap
 - Price based per property or per project

- Placing cap based on size (Dollar per gallon cap)
- Placing cap above \$5,000 for cistern on commercial property
- o Policy on handling projects not vetted by staff (*petitioners seeking reimbursements after the project is completed*)
- o Cisterns/rain barrels
 - Requirements for bleed-off valves
- o Maintenance agreements
 - Ensuring petitioner are in compliance
- o Medium approved projects
 - Staff reporting back quarterly to the Commission on these small and medium projects
- o Smaller approved projects
 - Provide a standard guidance document
 - Setting up an online application
- o Cost of planters
 - \$150 to \$300

7. **Drainage Assistance Project Recommendations**

Dale Hyatt provided a presentation to the Commission for the four projects up for review and recommendation under the new policy.

Estimated Project Costs	
6221 Chapel Hill Road Drainage Improvements	\$255,000
3105 Comstock Road Drainage Improvements	\$225,000
Kings Court Bank Stabilization	\$185,000
<i>*Baugh Street (project previously approved through petitions program)</i>	
Total Estimated Project Costs This Period	\$665,000
FY18 Budget	\$1,250,000
FY18 Remaining DA Funds	\$585,000

3105 Comstock Road - \$225,000

Mr. Webb asked if the City is interested in getting some of these lines out of backyards. **Dale Hyatt** replied that our general preference is to move infrastructure into the public right-of-way.

Mr. Carper asked if the section downstream remains in place. **Dale Hyatt** said it would remain in place until it's filled up.

Kings Court - \$185,000

Ms. Fleischmann asked how long the transformer has been moved. **Dale Hyatt** said within the year.

Mr. Carper inquired why a permanent drainage easement was not being acquired for the work. **Dale Hyatt** said this is a "Band-Aid" fix and not a structural repair. **Blair Hinkle** added the channel stabilization and stream restoration fits into the Drainage Assistance Program and staff believes these types of projects fit in another program that we will be working to develop next year.

3712 & 3716 Baugh Street

(previously approved petition project in 2012 and would like consideration under the new fully funded policy)

Mr. Webb asked if Buffaloe Road is maintained by the City of Raleigh or Department of Transportation (DOT). **Dale Hyatt** replied that it's DOT and they want this dedicated easement as part of the project.

Mr. Kane commented that Wake County recently did work in that area and confirmed that sporadic well users were in the area so he wants staff to be aware of what the water supply is on the property.

Mr. Starr asked how many projects we average per year. **Dale Hyatt** replied eight to 10.

Mr. Senior has a concern about the cost of two projects being close to half a million and how we are replacing rusted corrugated metal pipe on private property. It has a life span of 30-50 years, which does not last as long as concrete pipe. He stated we are fixing things now that should have been anticipated years ago by the developers, and it will eat this budget up for years to come if we continue approving corrugated metal pipe. **Ben Brown** said he agrees with the concern of the corrugated metal pipe outside of the public right-of-way. This year staff will work on making major changes to the Stormwater design manual and it's on the table to keep corrugated metal pipes even outside of any private systems. However, staff has not seen many developers using any corrugated metal pipe on property and about 90 percent has been reinforce concrete pipe (RCP). There is nothing in the manual, just designers moving more toward recommending RCP rather than corrugated or plastic pipe, but we do want to make that one of our recommendations as we look at in the manual.

Motion

Mr. Senior made a motion to approve all four projects, and **Mr. Carper** seconded. The motion was approved unanimously.

8. **Other Business** (*none to report*)

Adjournment: **Mr. Kane** made a motion to adjourn and **Mr. Bostic** seconded. The motion was unanimously. The meeting adjourned at 4:40 pm.

Kelly Daniel\Suzette Mitchell